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Tissue regenerating composition forming open pore foam, especially useful as bone replacement and/or drug releasing implant

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Patent Family

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
WO 9947097	A2	19990923	WO 99DE781	A	19990315	199948	B
DE 19812195	A1	19990930	DE 1012195	A	19980319	199948	
DE 19812195	C2	20000330	DE 1012195	A	19980319	200020	
EP 1064032	A2	20010103	EP 99919099	A	19990315	200102	
			WO 99DE781	A	19990315		

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Patent Details

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EP 1064032	A2	G		A61L-027/00	Based on patent WO 9947097
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Abstract:

WO 9947097 A2.

NOVELTY A polymerizable composition (I) for the formation of tissue in a human or animal body polymerizes to give an open-pore foam in which the forming tissue grows.

USE (I) specifically forms a medicinal implant and/or a bone replacement material; and may contain active agents, specifically tissue hormones (claimed) but also e.g. antibiotics or corticoids. The use of (I) is claimed for: (i) the formation of bone tissue, especially for filling paradontal bone pockets, for augmentation of jaw bone, as endodontic filling, for eliminating bone defects or for treating osteoporosis; (ii) skin regeneration; (iii) tumor treatment, where (I) contains tumor necrosis factor as active agent; or (iv) nerve tissue regeneration, where (I) contains a neurotransmitter as active agent.

(I) may also be used to form an electrically conductive foam (claimed) or for burn treatment.

ADVANTAGE Use of an open pore foam provides more rapid resorption and minimizes inhibition of tissue growth. A wide range of implants, having controllable resorption times, tissue adhesion properties and strengths, can be easily produced directly at the implantation sites.

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Technology Focus:

TECHNOLOGY FOCUS - POLYMERS - The obtained foam has a closed skin on the opposite side from that on which the tissue forms. (I) includes hollow spheres of resorbable material or water-soluble solid particles containing an active agent; and/or water-soluble particles for formation of at least part of the pores or for connecting the pores. (I) polymerizes in bulk, specifically to form a polyurethane, especially where the polyol component is an aliphatic diol or triol of molecular weight 100-600, the polyisocyanate component is an aliphatic compound having at least 2 NCO groups separated by at least 3 CH₂ groups and the NCO : OH molar ratio is at least 2.

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